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GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 15, 2003, 17:21:18 ; Search time 14 Seconds
(without alignments)
418.226 Million cell updates/sec

Title: US-09-509-283B-2

Perfect score: 1082

Sequence: 1 MKSGIMYFFLECLRIKVLTC.....YMKRAVATKSRSLDVTLL 199

Scoring table:

BLOSUM62
Gap 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

11 number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/prodata/1/laa/5A.COMB.pep:*
2: /cgn2_6/prodata/1/laa/5B.COMB.pep:*
3: /cgn2_6/prodata/1/laa/6A.COMB.pep:*
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5: /cgn2_6/prodata/1/laa/6C.COMB.pep:*
6: /cgn2_6/prodata/1/laa/6D.COMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	163	15.1	218	3	US-08-228-208A-20	Sequence 20, Appl
2	146.5	13.5	225	1	US-08-505-058-4	Sequence 4, Appl
3	146.5	13.5	225	2	US-08-459-818-24	Sequence 24, Appl
4	146.5	13.5	225	2	US-08-889-666-24	Sequence 24, Appl
5	146.5	13.5	225	2	US-08-465-078-24	Sequence 24, Appl
6	146.5	13.5	225	2	US-08-725-776-24	Sequence 24, Appl
7	146.5	13.5	225	2	US-08-488-062-24	Sequence 24, Appl
8	140	12.9	218	3	US-08-228-208A-19	Sequence 19, Appl
9	134.5	12.4	220	3	US-08-228-208A-21	Sequence 21, Appl
10	134	12.4	225	1	US-08-505-058-3	Sequence 3, Appl
11	134	12.4	225	2	US-08-465-078-23	Sequence 23, Appl
12	134	12.4	225	2	US-08-889-666-23	Sequence 23, Appl
13	134	12.4	225	2	US-08-465-078-23	Sequence 23, Appl
14	134	12.4	225	2	US-08-725-776-23	Sequence 23, Appl
15	134	12.4	225	2	US-08-488-062-23	Sequence 23, Appl
16	126	11.6	223	1	US-08-505-058-5	Sequence 5, Appl
17	126	11.6	223	2	US-08-459-818-25	Sequence 25, Appl
18	126	11.6	223	2	US-08-889-666-25	Sequence 25, Appl
19	126	11.6	223	2	US-08-465-078-25	Sequence 25, Appl
20	126	11.6	223	2	US-08-725-776-25	Sequence 25, Appl
21	126	11.6	223	2	US-08-488-062-25	Sequence 25, Appl
22	120.5	11.1	367	3	US-08-630-172-19	Sequence 19, Appl
23	120.5	11.1	367	4	US-09-375-419-19	Sequence 19, Appl
24	119.5	11.0	134	4	US-08-630-172-3	Sequence 3, Appl
25	119.5	11.0	134	4	US-09-375-419-3	Sequence 3, Appl
26	110.5	10.2	110	4	US-09-460-384-33	Sequence 33, Appl
27	93	8.6	221	3	US-08-228-208A-22	Sequence 22, Appl

28	89.5	8.3	117	2	US-08-529-878B-39	Sequence 39, Appl
29	87	8.0	330	2	US-08-332-562A-81	Sequence 81, Appl
30	87	8.0	330	2	US-08-332-562A-134	Sequence 134, Appl
31	86.5	8.0	209	4	US-09-430-503-20	Sequence 20, Appl
32	84.5	7.8	209	4	US-09-430-503-18	Sequence 18, Appl
33	84.5	7.8	209	4	US-09-430-503-24	Sequence 24, Appl
34	84	7.8	223	3	US-08-228-208A-17	Sequence 17, Appl
35	84	7.8	283	2	US-08-332-562A-136	Sequence 136, Appl
36	82.5	7.6	209	4	US-09-430-503-22	Sequence 22, Appl
37	81.5	7.5	187	1	US-08-067-684-14	Sequence 14, Appl
38	81.5	7.5	187	1	US-08-008-898-14	Sequence 14, Appl
39	81.5	7.5	187	2	US-08-459-818-14	Sequence 14, Appl
40	81.5	7.5	187	2	US-08-889-666-14	Sequence 14, Appl
41	81.5	7.5	187	2	US-08-725-776-14	Sequence 14, Appl
42	81.5	7.5	187	2	US-08-488-062-14	Sequence 14, Appl
43	81.5	7.5	187	2	US-08-228-208A-14	Sequence 14, Appl
44	81.5	7.5	187	3	US-08-228-208A-14	Sequence 14, Appl
45	81.5	7.5	187	5	PCT-US95-06726-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-08-228-208A-20
Sequence 20, Application US/08228208A
Patent No. 6090914
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Lebetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Wallace, Philip M.
TITLE OF INVENTION: CTLA4/CD28ig HYBRID FUSION
TITLE OF INVENTION: PROTEINS AND USES THEREOF
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Boulevard, Suite 400
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/228, 208A
FILING DATE: 15-Apr-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/008, 898
FILING DATE: 22-Jan-1993
APPLICATION NUMBER: 07/723, 617
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-300S01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310 445-1140
TELEFAX: 310 445-9031
TELEX:
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 218 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-228-208A-20

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Page 2

Query Match 15.1%; Score 163; DB 3; Length 218;
Best Local Similarity 26.5%; Pred. No. 3.5e-11;
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QY 30 MFIHNGVQIILCKYPD--IVQOFKMLKGGQILCDLTKTKSGNTVSIRSLK-----F 82
DB 29 LLYVDNNEVSLSCRYSNLAKERFASLYKG--VNSDVEVCNGNFTYQOPFRNPGN 86
QY 83 CHSOLSNNSVFFLYNLDHSHANYFCNLSIFDPPF--KVTLTGGYLIHYESQLC---C 137
DB 87 CDGFDNEETVYFRMLNDVNHDIYFCKIEYWPYPPLDNEKSNGTIIHKEKHCHAHOT 146
QY 138 QLKFWLPICGAFFVVC--ILGCIILC--WLTKK 168
DB 147 SPKLEPPLVYVAGVLCYGLTYVTLCITWNSRR 181

RESULT 2
US-505-058-4
Sequence 4, Application US/08505058
Patent No. 5773253
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
TITLE OF INVENTION: CTLA4 Mutant Molecules and Uses Thereof
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/505,058
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/228,208
FILING DATE: 15-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436.30US11
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-505-058-4

Query Match 13.5%; Score 146.5; DB 1; Length 225;
Best Local Similarity 26.2%; Pred. No. 3.2e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;
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DB 82 -FCHSOLSNNSVFFLYNLDHSHANYFCNLSIFDPPF--KVTLTGGYLIHYESQLC-- 136

DB 88 FNCDFNDEETVYFRMLNDVNHDIYFCKIEYWPYPPLDNEKSNGTIIHKEKHCHAH 147
QY 137 ----COLKFWLPICGAFFVVC--ILGCIILC--WLTKK 168
DB 148 XXXOTSPKLEPPLVYVAGVLCYGLTYVTLCITWNSRR 187

RESULT 3
US-08-459-818-24
Sequence 24, Application US/08459818
Patent No. 5851795
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Danle, Nilton K.
TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: FastSeq 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/459,818
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436.35US02
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-459-818-24

Query Match 13.5%; Score 146.5; DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 3.2e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;
QY 30 MFIHNGVQIILCKYPD--IVQOFKMLKGGQILCDLTKTKSGNTVSIRSLK----- 81
DB 30 LLYVDNNEVSLSCRYSNLAKERFASLYKG--VNSDVEVCNGNFTYQOPFRNPGN 87
QY 82 -FCHSOLSNNSVFFLYNLDHSHANYFCNLSIFDPPF--KVTLTGGYLIHYESQLC-- 136
DB 88 FNCDFNDEETVYFRMLNDVNHDIYFCKIEYWPYPPLDNEKSNGTIIHKEKHCHAH 147
QY 137 ----COLKFWLPICGAFFVVC--ILGCIILC--WLTKK 168
DB 148 XXXOTSPKLEPPLVYVAGVLCYGLTYVTLCITWNSRR 187

RESULT 4
US-08-889-666-24
Sequence 24, Application US/08889666
Patent No. 5885579
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.

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1  APPLICANT: Ledbetter, Jeffrey A.
2  APPLICANT: Damle, Nitin K.
3  APPLICANT: Brady, William
4  APPLICANT: Kienor, Peter A.
5  TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
6  NUMBER OF SEQUENCES: 26
7  CORRESPONDENCE ADDRESS:
8  ADDRESSEE: Merchant & Gould
9  STREET: 11150 Santa Monica Blvd., Suite 400
10 CITY: Los Angeles
11 STATE: California
12 COUNTRY: USA
13 ZIP: 90025
14
15 COMPUTER READABLE FORM:
16 MEDIUM TYPE: Floppy disk
17 COMPUTER: IBM PC compatible
18 OPERATING SYSTEM: PC-DOS/MS-DOS
19 SOFTWARE: PatentIn Release #1.0, Version #1.30
20 CURRENT APPLICATION DATA:
21 APPLICATION NUMBER: US/08/889,666
22 FILING DATE: 08-Jul-1997
23 CLASSIFICATION: 435
24 PRIOR APPLICATION DATA:
25 APPLICATION NUMBER: US 08/375390
26 FILING DATE: 18-Jan-1995
27
28 CLASSIFICATION: 435
29 ATTORNEY/AGENT INFORMATION:
30 NAME: Adriano, Sarah B.
31 REGISTRATION NUMBER: 34,470
32 REFERENCE/DOCKET NUMBER: 30436-35US01
33 TELECOMMUNICATION INFORMATION:
34 TELEPHONE: 310-445-1140
35 TELEFAX: 310-445-9031
36 INFORMATION FOR SEQ ID NO: 24:
37 SEQUENCE CHARACTERISTICS:
38 LENGTH: 225 amino acids
39 TYPE: amino acid
40 STRANDEDNESS:
41 TOPOLOGY: linear
42 MOLECULE TYPE: protein
43
44 US-08-889-666-24
45
46 Query Match 13.5%; Score 146.5; DB 2; Length 225;
47 Best Local Similarity 26.2%; Pled. No. 3.2e-09;
48 Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9
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50 QY 30 MTFHNHGQVLL-CRYPD--IYQRFMQLLKGGLCDLTKT-KSGNTVSTKSLK---- 81
51 30 LLYYDINNEKXSLSRYSYNIHLAKEFASLYKG--VNSDYKXVCVNGNGNTYQPOFRFNVG 87
52 30 LLYYDINNEKXSLSRYSYNIHLAKEFASLYKG--VNSDYKXVCVNGNGNTYQPOFRFNVG 87
53
54 QY 82 -FCHSOLSNNSVSEFLLNLDHSHANYFCNLSIFDPPF--KVTLLGGYLHYESQLC-- 136
55 DB 88 FNCDSGFNEVTFYFRNLNDVNTHTDIFYCKLEVMYPPPYLDNKSNGRIHIIKEKHLCHA 147
56
57 QY 137 ----COLKFWLPIGCAFAVYVC--IIGCTLIC--WLTKRK 168
58 DB 148 XXXQTSPTLFWPLVAVAGVLCGLGYITVICLIITMSRR 187
59
60 RESULT 5
61 US-08-465-078-24
62 Sequence 24, Application US/08465078
63 Patent No. 5885796
64
65 GENERAL INFORMATION:
66 APPLICANT: Linsley, Peter S.
67 APPLICANT: Ledbetter, Jeffrey A.
68 APPLICANT: Damle, Nitin K.
69 APPLICANT: Brady, William
70 APPLICANT: Kienor, Peter A.
71 TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
72 NUMBER OF SEQUENCES: 26
73 CORRESPONDENCE ADDRESS:
74 ADDRESSEE: Merchant & Gould

```

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1 STREET: 11150 Santa Monica Blvd., Suite 400
2 CITY: Los Angeles
3 STATE: California
4 COUNTRY: USA
5 ZIP: 90025
6
7 COMPUTER READABLE FORM:
8 MEDIUM TYPE: Floppy disk
9 COMPUTER: IBM PC compatible
10 OPERATING SYSTEM: PC-DOS/MS-DOS
11 SOFTWARE: Patent Release #1.0, Version #1.30
12 CURRENT APPLICATION DATA:
13 APPLICATION NUMBER: US/08/445, 078
14 FILING DATE: 05-JUN-1995
15 CLASSIFICATION: 435
16 PRIOR APPLICATION DATA:
17 APPLICATION NUMBER: US 08/375390
18 FILING DATE: 18-JAN-1995
19 ATTORNEY/AGENT INFORMATION:
20 NAME: Adriano, Sarah B.
21 REGISTRATION NUMBER: 34,470
22 REFERENCE/DOCKET NUMBER: 30436-3US01
23 TELECOMMUNICATION INFORMATION:
24 TELEPHONE: 310-445-1140
25 TELEFAX: 310-445-9031
26 INFORMATION FOR SEQ ID NO: 24:
27 SEQUENCE CHARACTERISTICS:
28 LENGTH: 225 amino acids
29 TYPE: amino acid
30 STRANDEDNESS:
31 TOPOLOGY: linear
32 MOLECULE TYPE: protein
33 US-08-465-078-24
34
35 Query Match           13 5%; Score 146.5; DB 2; Length 225;
36 Best Local Similarity 26.2%; Pred. No. 3.2e-09;
37 Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps
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40 Db      30 LLYVDNNEVXSLSCRYSYNLAKERFASLYKS--VNSDVXEVCVGNGNTVOPQPRNVG 87
41 Oy      82 -PCHSOLSNSSSEFYLNLDHSANYFCNLSIFDPPF--KVTLGLGVLHYESQLC-- 136
42 Db      88 ENCGDNEDNEYETFRMLNDLVNPTDIYOCKIEWVPPIYLIDNKXSGTITIKKHICHA 147
43 Oy      137 ----COLKMPILIGCAFNYVC--ILGCILLC--WLTKR 168
44 Db      148 XXXQTSFKLEPLVVAAGVLLCYGLDYLTCLITINSTR 187
45
46 RESULT 6
47 US-08-725-776-24
48 : Sequence 24, Application US/08725776
49 : Patent No. 5968510
50 : GENERAL INFORMATION:
51 : APPLICANT: Linsley, Peter S.
52 : APPLICANT: Ledbetter, Jeffrey A.
53 : APPLICANT: Dangle, Nitin K.
54 : APPLICANT: Brady, William
55 : APPLICANT: Kiener, Peter A.
56 : TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
57 : NUMBER OF SEQUENCES: 26
58 : CORRESPONDENCE ADDRESS:
59 : ADDRESSEE: Merchant & Gould
60 : STREET: 11150 Santa Monica Blvd., Suite 400
61 : CITY: Los Angeles
62 : STATE: California
63 : COUNTRY: USA
64 : ZIP: 90025
65 : COMPUTER READABLE FORM:
66 : MEDIUM TYPE: Floppy disk
67 : COMPUTER: IBM PC compatible
68 : OPERATING SYSTEM: PC-DOS/MS-DOS

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SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/725,776
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35US01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein

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13.5%; Score 146.5; DB 2; Length 225;
Query Match Similarity 26.2%; Pred. No.3.2e-09;
Best Local Similarity 26.2%; Pred. No.3.2e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps
9;

OY 30 MFIHNGVQVL-CKYPD--IVQFRKMLLGGGILCDLTKT-KSGNTVYSKSLK---- 81
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OY 82 -FCHSQTSSNVSFSEFLYNLDHSANVYFCNLSTIDPPPF--KVTLGGVLYHYSQLC-- 136
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DB 88 FCHDNEFENENETVTFRLMNLVDVHTDIYCKIEVWAPPYLDNKSNGTIIHKIKHLCHA 147
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OY 137 ----COLKFMPLPGCAAFVVC--ILGGLIC--WLKKK 168
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 148 XXXQSPKLFMPLVAVGVLGCLGYLTIVTLCIITNSRR 187
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 7
US-08-488-062-24
: Sequence 24, Application US/08488062
: Patent No. 5977318
: GENERAL INFORMATION:
: APPLICANT: Lindsey, Peter S.
: APPLICANT: Ledbetter, Jeffrey A.
: APPLICANT: Dame, Mitin K.
: APPLICANT: Brady, William
: APPLICANT: Kienet, Peter A.
: TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
: NUMBER OF SEQUENCES: 26
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merchant & Gould
: STREET: 1150 Santa Monica Blvd., Suite 400
: CITY: Los Angeles
: STATE: California
: COUNTRY: USA
: ZIP: 90023

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,062
FILING DATE: 07-JUN-1995
CLASSIFICATION: A35
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
ATTORNEY/AGENT INFORMATION:

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? NAME: Adriano, Sarah B.
? REGISTRATION NUMBER: 34,470
? REFERENCE/DOCKET NUMBER: 30436-35US01
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 310-445-1140
? TELEFAX: 310-445-9031
? INFORMATION FOR SEQ ID NO: 24:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 225 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-488-062-24

Query Match      13.5%   Score 146.5;   DB 2;   Length 225;
Best Local Similarity 26.2%   Pred. No. 3,2e+09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9

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[illegible]

RESULT 8
 US-08-228-208A-19
 : Sequence 19, Application US/08228208A
 Patent No. 6090914
 GENERAL INFORMATION:
 APPLICANT: Linsley, Peter S.
 APPLICANT: Ledbetter, Jeffrey A.
 APPLICANT: Danle, Nlth K.
 APPLICANT: Brady, William
 APPLICANT: Wallace, Philip M.
 TITLE OF INVENTION: CTLA4/CD28lg HYBRID FUSION
 TITLE OF INVENTION: PROTEINS AND USES THEREOF
 NUMBER OF SEQUENCES: 22
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Merchant & Gould
 STREET: 11150 Santa Monica Boulevard, Suite 4000
 CITY: Los Angeles
 STATE: CA
 COUNTRY: USA
 ZIP: 90025
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: Fastseq Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/228,208A
 FILING DATE: 15-APR-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/008,898
 FILING DATE: 22-JAN-1993
 APPLICATION NUMBER: 07/723,617
 FILING DATE: 27-JUN-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Adriano, Sarah B
 REGISTRATION NUMBER: 34,470
 REFERENCE/DOCKET NUMBER: 30436-30US01
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 310 445-1140
 TELEFAX: 310 445-9031

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TELEX:
: INFORMATION FOR SEQ ID NO: 19:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 218 amino acids
: TYPE: amino acid
: STRANDEDNESS: unknown
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-228-208A-19

Query Match
: 12.9%; Score 140; DB 3; Length 218;
Best Local Similarity 25.7%; Pred. No. 1.8e-08;
Matches 39; Conservative 24; Mismatches 61; Indels 28; Gaps 7;

OY 38 VOILCKYPPD--IVQOFKMOILKGQILDLTKRKSGSNTVSIKSLKF-----CHISQLSNN 90
Db 37 VLSICRSTYNLAKESFRASLTKG--VNSDVEVCVGKNGFTYOPFRSNAEFCDGDFDNE 94
OY 91 SVSEFLYNLDHSHANYFCNLSTFDPPPF--KVTLTGGLHIYESQLC---COLKTMLP 144
: 95 TATFRLMNLHVNHDTIYFCKIEFWPPYLDNERSNGTIIHKHKLCHTQSSPLFW-- 152
OY 145 IGCARFVVCILGIC-----ILICWLTKKK 168
Db 153 ---ALYVAVGVLCFYGLLYVALCVIWTNSRR 181

RESULT 9
US-08-228-208A-21
: Sequence 21, Application US/08228208A
: Patent No. 6090914
: GENERAL INFORMATION:
: APPLICANT: Linsley, Peter S.
: APPLICANT: Ledbetter, Jeffrey A.
: APPLICANT: Damle, Nitin K.
: APPLICANT: Brady, William
: APPLICANT: Wallace, Phillip M.
: TITLE OF INVENTION: CTLA4/CD281g HYBRID FUSION
: TITLE OF INVENTION: PROTEINS AND USES THEREOF
: NUMBER OF SEQUENCES: 22
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merchant & Gould
: STREET: 11150 Santa Monica Boulevard, Suite 400
: CITY: Los Angeles
: STATE: CA
: COUNTRY: USA
: ZIP: 90025
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/228,208A
: FILING DATE: 15-APR-1994
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/008,898
: FILING DATE: 22-JAN-1993
: APPLICATION NUMBER: 07/723,617
: FILING DATE: 27-JUN-1991
: ATTORNEY/AGENT INFORMATION:
: NAME: Adriano, Sarah B.
: REGISTRATION NUMBER: 34,470
: REFERENCE/DOCKET NUMBER: 30436-30US01
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 310 445-1140
: TELEFAX: 310 445-9031
: TELEX:
: INFORMATION FOR SEQ ID NO: 21:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 220 amino acids
: TYPE: amino acid
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STRANDEDNESS: unknown
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-228-208A-21

Query Match
: 12.4%; Score 134.5; DB 3; Length 220;
Best Local Similarity 25.4%; Pred. No. 7.9e-08;
Matches 44; Conservative 30; Mismatches 74; Indels 25; Gaps 7;

OY 30 MFLFHNGVQILCKYPPD--IVQOFKMOILKGQILDLTKRKSGN--TVSISKRFCH 84
Db 28 MLVAYMNAVLNLSCKSYVLFSEFRASLHKGLDSANVCVYGNVSQLQVYSKTGKND 87
OY 85 SOLSNNSVSEFLYNLDHSHANYFCNLSTFDPPPF--KVTLTGGLHIYESQLCCLQKFW 142
: 88 GKLGNSVYFYLQNLVYMQTDIYFCKIEFWPPYLDNERSNGTIIHKHKLCHTQSSPLF- 146
Db 143 LPIGCAFVVCILGICILIC-----WLTKKYSVHDHPNGEYFMF 183
OY 147 -PGPSKPEFVLYVVGVLACYSLSLYVAFLIFVNSKR-SRLH---SDYMM 194

RESULT 10
US-08-505-058-3
: Sequence 3, Application US/08505058
: Patent No. 5773253
: GENERAL INFORMATION:
: APPLICANT: Linsley, Peter S.
: APPLICANT: Ledbetter, Jeffrey A.
: APPLICANT: Peach, Robert
: TITLE OF INVENTION: CTLA4 Mutant Molecules and Uses Thereof
: NUMBER OF SEQUENCES: 13
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merchant & Gould
: STREET: 11150 Santa Monica Blvd., Suite 400
: CITY: Los Angeles
: STATE: California
: COUNTRY: USA
: ZIP: 90025
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/505,058
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/228,208
: FILING DATE: 15-APR-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Adriano, Sarah B.
: REGISTRATION NUMBER: 34,470
: REFERENCE/DOCKET NUMBER: 30436,30US11
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 310-445-1140
: TELEFAX: 310-445-9031
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 225 amino acids
: TYPE: amino acid
: STRANDEDNESS:
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-505-058-3

Query Match
: 12.4%; Score 134; DB 1; Length 225;
Best Local Similarity 23.0%; Pred. No. 9.3e-08;
Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps 8;

OY 11 FLARKYVTEIGNSANYEFIFHNGVQILCKYPPD--IVQOFKMOILKGQILDLTKRT 68
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Page 7

RESULT 13
US-08-465-078-23
Sequence 23, Application US/08465078
Patent No. 5985796

GENERAL INFORMATION:

APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.

TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof

NUMBER OF SEQUENCES: 26

CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465.078
FILING DATE: 05-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995

ATTORNEY/AGENT INFORMATION:
NAME: Adlano, Sarah B.
REGISTRATION NUMBER: 34, 470
REFERENCE/DOCKET NUMBER: 30436-3SUS01

TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031

INFORMATION FOR SEQ. ID NO.: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid

STRANDNESS:
TOPOLOGY: linear

MOLECULE TYPE: protein

us-08-465-078-23

[illegible]

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1 Patent No. 5968510
2 GENERAL INFORMATION:
3 APPLICANT: Linsley, Peter S.
4 APPLICANT: Ledbetter, Jeffrey A.
5 APPLICANT: Danie, Ntin K.
6 APPLICANT: Brady, William
7 APPLICANT: Klenner, Peter A.
8 TITLE OF INVENTION: CTL4 Receptor and Uses Thereof
9 NUMBER OF SEQUENCES: 26
10 CORRESPONDENCE ADDRESS:
11 ADDRESSEE: Merchant & Gould
12 STREET: 11150 Santa Monica Blvd., Suite 400
13 CITY: Los Angeles
14 STATE: California
15 COUNTRY: USA
16 ZIP: 90025
17
18 COMPUTER READABLE FORM:
19 MEDIUM TYPE: Floppy disk
20 COMPUTER: IBM PC compatible
21 OPERATING SYSTEM: PC-DOS/MS-DOS
22 SOFTWARE: PatentIn Release #1.0, Version #1.30
23 CURRENT APPLICATION DATA:
24 APPLICATION NUMBER: US/08/725,776
25 FILING DATE:
26 CLASSIFICATION:
27 PRIOR APPLICATION DATA:
28 APPLICATION NUMBER: US 08/375390
29 FILING DATE: 18-JAN-1995
30 ATTORNEY/AGENT INFORMATION:
31 NAME: Adriano, Sarah B.
32 REGISTRATION NUMBER: 34,470
33 REFERENCE/DOCKET NUMBER: 30436-350S01
34 TELECOMMUNICATION INFORMATION:
35 TELEPHONE: 310-445-1140
36 TELEFAX: 310-445-9031
37 INFORMATION FOR SEQ ID NO: 23:
38 SEQUENCE CHARACTERISTICS:
39 LENGTH: 225 amino acids
40 TYPE: amino acid
41 STRANDEDNESS:
42 TOPOLOGY: linear
43 MOLECULE TYPE: protein
44 US-08-725-776-23

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Query Match: 12.4%; Score 134; DB 2; Length 225;
Best Local Similarity 23.0%; Pref. No. 9.3e-08;
Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps 8;

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Db       12 FPKSVYENKILVKQSPLLVQSNVSLSCRSYMLAKKEFRASLYKG--VNSDXYEV 69

QY      69 -KSGNTVYSIKLKF-----CHSOLSNNSVSFPFLYNLDHSHAVYFCNLSIFDPDPF--K 120
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Db       70 CVNGNEFTYQPOFRSNAEFGDCDDPEINEYVFLMLNHNWHDYITCKLEFRMYPPPLDN 129

QY      121 VTLTGXYLIHTYESOLC-----COLKRYLPLGCAALYVVCILGC-----ILTCWLT 165
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QY      166 KKR 168
          ::
Db       185 SRR 187

RESULT 15
US-08-488-062-23
: Sequence 23, Application US/08488062
: Patent No.5977318

GENERAL INFORMATION:
: APPLICANT: Linsley, Peter S.
: APPLICANT: Ledbetter, Jeffrey A.
: APPLICANT: Dangle, Nilton K.

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Page 8

APPLICANT: Brady, William
 APPLICANT: Kienert, Peter A.
 TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Merchant & Gould
 STREET: 11150 Santa Monica Blvd., Suite 400
 CITY: Los Angeles
 STATE: California
 COUNTRY: USA
 ZIP: 90025
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/488,062
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/375390
 FILING DATE: 18-JAN-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Adriano, Sarah B.
 REGISTRATION NUMBER: 34,470
 REFERENCE/DOCKET NUMBER: 30436-35US01
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 310-445-1140
 TELEFAX: 310-445-9031
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 225 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 OS-08-488-062-23

Query Match	12.4%;	Score 134;	DB 2;	Length 225;
Best Local Similarity	23.0%;	Pred. No. 9.3e-08;		
Matches 42;	Conservative 32;	Mismatches 77;	Indels 32;	Gaps 8;

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Job time : 16 secs

Page 8

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Page 1

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 15, 2003, 17:21:18 ; Search time 11 Seconds
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359,620 Million cell updates/sec

Title: US-09-509-283B-2

Perfect score: 1082
Sequence: 1 MMSGIWMFFLECLRIKIVNG.....YMFRAVNTAKSRDLVDVL 199

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Gapop 10.0 , Gapext 0.5

Searched: 120991 seqs, 19878514 residues

11 number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Lasting first 45 summaries

Database :

Published Applications-AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEM_PUB pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEM_PUB pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEM_PUB pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US07_NEM_PUB pep:*
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- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEM_PUB pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US06_NEM_PUB pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
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2	1082	100.0	199	12	US-10-107-828-2
3	1082	100.0	199	12	US-10-107-907-2
4	1067.5	98.7	198	9	US-09-972-524-2
5	1067.5	98.7	198	9	US-09-823-307-2
6	1066.5	98.6	198	9	US-09-889-545-12
7	737.5	68.2	200	9	US-09-989-545-8
8	737.5	68.2	200	9	US-09-889-545-10
9	722.5	66.8	200	9	US-10-107-868-14
10	722.5	66.8	200	12	US-10-107-868-14
11	722.5	66.8	200	12	US-10-107-907-14
12	701	64.8	200	9	US-10-107-868-13
13	701	64.8	200	12	US-10-107-828-13
14	701	64.8	200	12	US-10-107-907-13
15	696	64.3	216	9	US-10-107-868-15
16	696	64.3	216	9	US-10-107-868-23
17	696	64.3	216	12	US-10-107-828-15
18	696	64.3	216	12	US-10-107-828-23
19	696	64.3	216	12	US-10-107-907-15

20	696	64.3	216	12	US-10-107-907-23	Sequence 23, Appl
21	694.5	64.2	200	9	US-10-107-868-16	Sequence 16, Appl
22	694.5	64.2	200	12	US-10-107-828-16	Sequence 16, Appl
23	694.5	64.2	200	12	US-10-107-907-16	Sequence 16, Appl
24	176	16.3	214	9	US-10-107-868-17	Sequence 17, Appl
25	176	16.3	214	12	US-10-107-828-17	Sequence 17, Appl
26	176	16.3	214	12	US-10-107-907-17	Sequence 17, Appl
27	145.5	13.4	221	10	US-09-303-040-8	Sequence 8, Appl1
28	145.5	13.4	221	10	US-09-303-040-8	Sequence 8, Appl1
29	139.5	12.9	220	9	US-10-107-868-25	Sequence 25, Appl
30	139.5	12.9	220	9	US-09-889-545-19	Sequence 19, Appl
31	139.5	12.9	220	12	US-10-107-828-25	Sequence 25, Appl
32	139.5	12.9	220	12	US-10-107-907-25	Sequence 25, Appl
33	138	12.8	218	9	US-09-989-545-18	Sequence 18, Appl
34	89	8.2	305	10	US-09-771-730-119	Sequence 119, App
35	86.5	8.0	223	9	US-09-889-545-20	Sequence 20, Appl
36	86.5	8.0	223	9	US-10-211-207-5	Sequence 5, Appl1
37	86	7.9	223	9	US-10-107-868-26	Sequence 26, Appl
38	86	7.9	223	9	US-09-889-545-21	Sequence 21, Appl
39	86	7.9	223	9	US-10-211-207-3	Sequence 3, Appl1
40	86	7.9	223	12	US-10-107-828-26	Sequence 26, Appl
41	86	7.9	223	12	US-10-107-907-26	Sequence 26, Appl
42	81.5	7.5	212	9	US-10-057-288-12	Sequence 12, Appl
43	79.5	7.3	269	9	US-10-028-072-530	Sequence 530, App
44	79	7.3	168	10	US-09-845-899A-7	Sequence 7, Appl1
45	78	7.2	231	10	US-09-862-027-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-10-107-868-2
Sequence 2, Application US/10107868
Patent No. US20020156242A1
GENERAL INFORMATION:
APPLICANT: Tamacani, Takuya
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107,868
CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 09/561,308
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 09/383,551
PRIOR FILING DATE: 1999-08-26
PRIOR APPLICATION NUMBER: PCT/JP98/00837
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: JAPAN 09-62290
PRIOR FILING DATE: 1997-02-27
PRIOR APPLICATION NUMBER: JAPAN 10-62217
PRIOR FILING DATE: 1998-02-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 199
TYPE: PRT
ORGANISM: Homo sapiens
US-10-107-868-2

Query Match 100.0%; Score 1082; DB 9; Length 199;
Best Local Similarity 100.0%; Pred. No. 2.9e-101;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MMSGIWMFFLECLRIKIVTGEINGSANYEMEFPHNGGVQICKPPDIVQOFKQMLKGG 60
DB 1 MMSGIWMFFLECLRIKIVTGEINGSANYEMEFPHNGGVQICKPPDIVQOFKQMLKGG 60
QY 61 IICDLITKRGSGNVYSIKSLKFCQSOLSNNSVSFLYINLDHSHANYFCMLSTFPDPPK 120
DB 61 IICDLITKRGSGNVYSIKSLKFCQSOLSNNSVSFLYINLDHSHANYFCMLSTFPDPPK 120

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Page 2

QY 121 VNTGTYGTHIYESOLCCQKFMPLPGCAAPVWYCLIGLITLQWTKTKKXSSVHPNNEY 160
 121 TT
 Db 121 VNTGTYGTHIYESOLCCQKFMPLPGCAAPVWYCLIGLITLQWTKTKKXSSVHPNNEY 160
 121 TT
 QY 181 MEMRAVNTAKKSRLTDVTL 199
 181 TT
 Db 181 MEMRAVNTAKKSRLTDVTL 199
 181 TT

RESULT 2
US-10-107-828-2
; Sequence 2, Application US/10107828

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GENERAL INFORMATION:
APPLICANT: Yamatani, Takuya
APPLICANT: Tezuka, Katsunari
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107,828
PRIORITY FILING DATE: 2002-03-26
PRIORITY APPLICATION NUMBER: US/09/561,308B
PRIORITY FILING DATE: 2000-04-28
PRIORITY APPLICATION NUMBER: PCT/J998/00837
PRIORITY FILING DATE: 1998-02-27
PRIORITY APPLICATION NUMBER: JAPAN 09-62290
PRIORITY FILING DATE: 1997-02-27
PRIORITY APPLICATION NUMBER: JAPAN 10-62217
PRIORITY FILING DATE: 1998-02-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 2
LENGTH: 199
TYPE: PRT
ORGANISM: Homo sapiens
US-10-107-828-2

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Query Match	100.0%	Score 1082	DB 12	Length 199
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Oy	61	IICDILTKTKSGMNTVSIKSLKPCCHSOLSNNSVFEFLYIIDLHSHANTYPCNLSTIDPEPPK	120	
Db	61	IICDILTKTKSGMNTVSIKSLKPCCHSOLSNNSVFEFLYIIDLHSHANTYPCNLSTIDPEPPK	120	
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Db	121	VFLTGGYLAHIESOLCCQLKFWLPIJGCAFFVVCIIICLWLTKRKYSSVHDHPNGEY	180	
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Db	181	MEMRAVNTAKKSRLTDVTL	199	

RESULT 3
US-10-107-907-2
Sequence 2, Application US/10107907
Patent No. US20020151685A1
GENERAL INFORMATION:
APPLICANT: Tamakani, Takuya
APPLICANT: Tezuka, Katsunari
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107,907
CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 09/561,308
PRIOR FILING DATE: 2000-04-28
PRIORITY APPLICATION NUMBER: PCT/jp98/00837

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:      PRIOR FILING DATE: 1998-02-27
:      PRIOR APPLICATION NUMBER: JAPAN 09-62290
:      PRIOR FILING DATE: 1997-02-27
:      PRIOR APPLICATION NUMBER: JAPAN 10-62217
:      PRIOR FILING DATE: 1998-02-26
:      NUMBER OF SEQ ID NOS: 26
:      SOFTWARE: FastSeq for Windows Version 4.0
:      SEQ ID NO: 2
:      LENGTH: 199
:      TYPE: prt
:      ORGANISM: Homo sapiens
:      OS-10-107-907-2

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Query Match	100.0%;	Score 1082;	DB 12;	Length 199;
Best Local Similarity	100.0%;	Pred. No. 2.9e-101;		
Matches 199; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

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Db	1	MMSGMTATFEFLCRLRIKIVLTGELINGSANEMFTPHNGVQLCKPTDYOQFMQLLKGG	60
Qy	61	ILCDLTTRKSGSGNTVSTKSLKCHQSLSNNNSVSFFLYNLIDHSNANYFCNLSTIDPPPFK	120
Db	61	ILCDLTTRKSGSGNTVSTKSLKCHQSLSNNNSVSFFLYNLIDHSNANYFCNLSTIDPPPFK	120
Qy	121	VLTLTGGVLAHIESOLCCOLKEFWPIGCAAFVVCILGCLILCWLTJKTKKSSVHDPNGEY	180
Db	121	VLTLTGGVLAHIESOLCCOLKEFWPIGCAAFVVCILGCLILCWLTJKTKKSSVHDPNGEY	180
Qy	181	MEMRAVNTAKKSRLTDVTL	199
Db	181	MEMRAVNTAKKSRLTDVTL	199

RESULT 4
 US-09-972-524-2
 Sequence 2, Application US/09972524
 Patient No. US20020177191A1
 GENERAL INFORMATION:
 APPLICANT: Kloczek, Richard
 TITLE OF INVENTION: Methods for Treatment of Asthmatic Disorders
 FILE REFERENCE: 7853-240
 CURRENT APPLICATION NUMBER: US/09/972,524
 PRIORITY FILING DATE: 2001-10-04
 PRIOR APPLICATION NUMBER: 09/509,283
 PRIORITY FILING DATE: 2000-08-11
 NUMBER OF SEQ ID NOS: 4
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 2
 LENGTH: 198
 TYPE: PRT
 ORGANISM: 8F4
 US-09-972-524-2

	Query Match	98.7%;	Score 1067.5;	DB 9;	Length 198;
	Best Local Similarity	99.5%;	Pred. No. 8.2e-100;		
	Matches 198;	Conservative	0;	Mismatches 0;	Indels 1; Gaps 1;
QY	1	MSGGLMFFPLCLIKVLGEINGSANTEMPLFHNNGVOILCKYDPYVOQRMOLLGGG	60		
DB	1	MSGGLMFFPLCLIKVLGEINGSANTEMPLFHNNGVOILCKYDPYVOQRMOLLGGG	60		
QY	61	ILCDLTKRKGSGNVTSKSLKFC H SO L SN S VSFFLNLNDHSHANTYFCNLSTDPDPKK	120		
DB	61	ILCDLTKRKGSGNVTSKSLKFC H SO L SN S VSFFLNLNDHSHANTYFCNLSTDPDPKK	120		
QY	121	VVLTGCVLHIIYESOLCCQLKFWLPIGCAFAVVCILICLILCMLTRKRYSSSVHDPNGEY	180		
DB	121	VVLTGCVLHIIYESOLCCQLKFWLPIGCAFAVVCILICLILCMLTRKRYSSSVHDPNGEY	179		
QY	181	MEMRAVNTAKKSRLTDVTL	199		
DB	180	MEMRAVNTAKKSRLTDVTL	198		

```

US-09-823-307-2
: Sequence 2, Application US/09823307
: Publication No. US20020182667A1
: GENERAL INFORMATION:
: APPLICANT: Krocze, Richard
: TITLE OF INVENTION: Methods of Modulating T Lymphocyte Costimulation
: FILE REFERENCE: 7853-235
: CURRENT APPLICATION NUMBER: US/09/823,307
: CURRENT FILING DATE: 2001-04-02
: PRIOR APPLICATION NUMBER: 09/509,283
: PRIOR FILING DATE: 2000-08-11
: NUMBER OF SEQ ID NOS: 4
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 2
: LENGTH: 198
: TYPE: PRT
: ORGANISM: 8f4
: 09-823-307-2

Query Match 98.7% Score 1067.5; DB 9; Length 198;
Best Local Similarity 99.5% Pred. No. 8,2e-100;
Matches 198; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 M K S G L M Y F F L P C L R I K V L T G E I N G S A N Y E M F I F H N G V O I L C K Y P D I V O Q F K M Q L L K G Q 60
DB 1 M K S G L M Y F F L C R I K V L T G E I N G S A N Y E M F I F H N G V O I L C K Y P D I V O Q F K M Q L L K G Q 60
QY 61 I L C D L T R K T G S G N T V S I K S L K F C H S O L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P K 120
DB 61 I L C D L T R K T G S G N T V S I K S L K F C H S O L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P K 120
QY 121 V T L T G G L H I Y E S O L C C O L K F M L P I G C A F V Y V C I I G C I L I C M L K R K K Y S S Y H D P P G E Y 180
DB 121 V T L T G G L H I Y E S O L C C O L K F M L P I G C A F V Y V C I I G C I L I C M L K R K K K I S S Y H D P P G E Y 179
QY 181 M F M R A V N T A K K S R L D V T L 199
DB 180 M F M R A V N T A K K S R L D V T L 198

RESULT 6
US-09-989-545-12
: Sequence 12, Application US/09989545
: Patent No. US20020164697A1
: GENERAL INFORMATION:
: APPLICANT: Lehar, Sophie
: APPLICANT: Manning, Stephen
: APPLICANT: Coyle, Anthony J.
: APPLICANT: Gutierrez-Ramos, Jose-Carlos
: TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Thereof
: FILE REFERENCE: 5800-10B
: CURRENT APPLICATION NUMBER: US/09/989,545
: CURRENT FILING DATE: 2001-11-20
: PRIOR APPLICATION NUMBER: 09/168,229
: PRIOR FILING DATE: 1998-10-07
: PRIOR APPLICATION NUMBER: 09/258,670
: PRIOR FILING DATE: 1999-02-26
: NUMBER OF SEQ ID NOS: 24
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 12
: LENGTH: 198
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-989-545-12

Query Match 98.6% Score 1066.5; DB 9; Length 198;
Best Local Similarity 99.5% Pred. No. 1e-99;
Matches 198; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 M K S G L M Y F F L P C L R I K V L T G E I N G S A N Y E M F I F H N G V O I L C K Y P D I V O Q F K M Q L L K G Q 60
DB 1 M K S G L M Y F F L C R I K V L T G E I N G S A N Y E M F I F H N G V O I L C K Y P D I V O Q F K M Q L L K G Q 60
QY 61 I L C D L T R K T G S G N T V S I K S L K F C H S O L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P K 120
DB 61 I L C D L T R K T G S G N T V S I K S L K F C H S O L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P K 120
QY 121 V T L T G G L H I Y E S O L C C O L K F M L P I G C A F V Y V C I I G C I L I C M L K R K K Y S S Y H D P P G E Y 180
DB 121 V T L T G G L H I Y E S O L C C O L K F M L P I G C A F V Y V C I I G C I L I C M L K R K K K I S S Y H D P P G E Y 179
QY 181 M F M R A V N T A K K S R L D V T L 199
DB 180 M F M R A V N T A K K S R L D V T L 198

RESULT 7
US-09-989-545-8
: Sequence 8, Application US/09989545
: Patent No. US20020164697A1
: GENERAL INFORMATION:
: APPLICANT: Lehar, Sophie
: APPLICANT: Manning, Stephen
: APPLICANT: Coyle, Anthony J.
: APPLICANT: Gutierrez-Ramos, Jose-Carlos
: TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Thereof
: FILE REFERENCE: 5800-10B
: CURRENT APPLICATION NUMBER: US/09/989,545
: CURRENT FILING DATE: 2001-11-20
: PRIOR APPLICATION NUMBER: 09/168,229
: PRIOR FILING DATE: 1998-10-07
: PRIOR APPLICATION NUMBER: 09/258,670
: PRIOR FILING DATE: 1999-02-26
: NUMBER OF SEQ ID NOS: 24
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 8
: LENGTH: 200
: TYPE: PRT
: ORGANISM: Mus sp.
: US-09-989-545-8

Query Match 98.2% Score 737.5; DB 9; Length 200;
Best Local Similarity 69.3% Pred. No. 9.4e-67;
Matches 138; Conservative 20; Mismatches 40; Indels 1; Gaps 1;

QY 1 M K S G L M Y F F L P C L R I K V L T G E I N G S A N Y E M F I F H N G V O I L C K Y P D I V O Q F K M Q L L K G Q 60
DB 1 M K R Y C H V F V C F L R L L T G E I N G S A D H M F S F H N G V O I S C K Y P V O Q L K R R F R E R E 60
QY 61 I L C D L T R K T G S G N T V S I K S L K F C H S O L S N N S V S F F L Y N L D H S H A N Y F C N L S I F D P P P K 120
DB 61 V C E L T L T R K T G S G N A V S I K N M L C L Y H L S N N S V S F L N N P D S Q S Y F C S L S I F D P P P R O 120
QY 121 V - T L T G G L H I Y E S O L C C O L K F M L P I G C A F V Y V C I I G C I L I C M L K R K K Y S S Y H D P P G E Y 179
DB 121 E R N I S G L V L H I Y E S O L C C O L K F M L P V G C A F V Y V L F E C I L I L I W S K K I G S S Y H D P P N S E 180
QY 180 Y M F M R A V N T A K K S R L D V T L 198
DB 181 Y M F M A V N T A K K S R L A G V T 199

RESULT 8
US-09-989-545-10
: Sequence 10, Application US/09989545
: Patent No. US20020164697A1
: GENERAL INFORMATION:
: APPLICANT: Lehar, Sophie
: APPLICANT: Manning, Stephen
: APPLICANT: Coyle, Anthony J.
: APPLICANT: Gutierrez-Ramos, Jose-Carlos
: TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Thereof
: FILE REFERENCE: 5800-10B

```

```
; CURRENT APPLICATION NUMBER: US/09/989,545
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 09/168,229
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 09/258,670
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-989-545-10
```

```
Query Match      68.2%; Score 737.5; DB 9; Length 200;
Best Local Similarity 69.3%; Pred. No. 9,4e-67;
Matches 136; Conservative 20; Mismatches 40; Indels 1; Gaps 1;
```

```
QY      1 M K S G L M Y F F L C L R I K V L T G E I N G S A N Y E M F I H N G V O I L C K Y P D I V O O F K M Q L K G Q 60
      11 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      1 M K P Y C H V F E C F L I R L T G E I N G S A D H M F S F H N G V O I S C K Y P E T V O O L K M R L F R E R E 60

QY      61 I L C D L T K T K S G N T V S I K S L K F C H S O L S N N S V F F L Y L N D H S H A N Y F C N L S I F D P P P K 120
      61 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      61 V C E L F T K T K S G N A V S I K N P M L C L Y H L S N N S V F F L N P D S S G S Y F C S L S I F D P P P Q 120

QY      121 V - T L T G C Y L H I Y E S Q L C C O L K F M L P I G C A F Y V V C I L C I L C M L T K K Y S S V H D P N G E 179
      121 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      121 E R N L S G G L H I Y E S Q L C C O L K L M L P V G C A F Y V V L L F G C I L I I M F S K R K Y G S S V H D P N S E 180

QY      180 Y M F M R A V N T A K K S R L T D V T 198
      180 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      181 Y M F M A A V N T N K K S R L A G V T 199
      181 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 9

```
US-10-107-868-14
; Sequence 14, Application US/10107868
; Patent No. US20020156242A1
; GENERAL INFORMATION:
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; FILE REFERENCE: 06501-039002
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US/10/107,868
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 09/383,551
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-107-868-14
```

```
Query Match      66.8%; Score 722.5; DB 9; Length 200;
Best Local Similarity 68.3%; Pred. No. 3e-65;
```

```
Matches 136; Conservative 20; Mismatches 42; Indels 1; Gaps 1;

QY      1 M K S G L M Y F F L C L R I K V L T G E I N G S A N Y E M F I H N G V O I L C K Y P D I V O O F K M Q L K G Q 60
      11 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      1 M K P Y C H V F E C F L I R L T G E I N G S A D H M F S F H N G V O I S C K Y P E T V O O L K M R L F R E R E 60
```

```
QY      61 I L C D L T K T K S G N T V S I K S L K F C H S O L S N N S V F F L Y L N D H S H A N Y F C N L S I F D P P P K 120
      61 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      61 V C E L F T K T K S G N A V S I K N P M L C L Y H L S N N S V F F L N P D S S G S Y F C S L S I F D P P P Q 120

QY      121 V - T L T G C Y L H I Y E S Q L C C O L K F M L P I G C A F Y V V C I L C I L C M L T K K Y S S V H D P N G E 179
      121 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      121 E R N L S G G L H I Y E S Q L C C O L K L M L P V G C A F Y V V L L F G C I L I I M F S K R K Y G S S V H D P N S E 180

QY      180 Y M F M R A V N T A K K S R L T D V T 198
      180 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      181 Y M F M A A V N T N K K S R L A G V T 199
      181 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 10

```
US-10-107-828-14
; Sequence 14, Application US/10107828
; Patent No. US20020115831A1
; GENERAL INFORMATION:
; APPLICANT: Tametani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; FILE REFERENCE: 06501-039002
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US/10/107,828
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-107-828-14
```

```
Query Match      66.8%; Score 722.5; DB 12; Length 200;
Best Local Similarity 68.3%; Pred. No. 3e-65;
```

```
Matches 136; Conservative 20; Mismatches 42; Indels 1; Gaps 1;

QY      1 M K S G L M Y F F L C L R I K V L T G E I N G S A N Y E M F I H N G V O I L C K Y P D I V O O F K M Q L K G Q 60
      11 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      1 M K P Y C H V F E C F L I R L T G E I N G S A D H M F S F H N G V O I S C K Y P E T V O O L K M R L F R E R E 60

QY      61 I L C D L T K T K S G N T V S I K S L K F C H S O L S N N S V F F L Y L N D H S H A N Y F C N L S I F D P P P K 120
      61 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      61 V C E L F T K T K S G N A V S I K N P M L C L Y H L S N N S V F F L N P D S S G S Y F C S L S I F D P P P Q 120

QY      121 V - T L T G C Y L H I Y E S Q L C C O L K F M L P I G C A F Y V V C I L C I L C M L T K K Y S S V H D P N G E 179
      121 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      121 E R N L S G G L H I Y E S Q L C C O L K L M L P V G C A F Y V V L L F G C I L I I M F S K R K Y G S S V H D P N S E 180

QY      180 Y M F M R A V N T A K K S R L T D V T 198
      180 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      181 Y M F M A A V N T N K K S R L A G V T 199
      181 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
```

RESULT 11

```
US-10-107-907-14
; Sequence 14, Application US/10107907
; Patent No. US20020151685A1
; GENERAL INFORMATION:
; APPLICANT: Tametani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,907
```

Wed Jan 15 17:17:46 2003

us-09-509-283b-2.rapb

Page 5

```

: CURRENT FILING DATE: 2002-03-26
: PRIOR APPLICATION NUMBER: 09/561,308
: PRIOR FILING DATE: 2000-04-28
: PRIOR APPLICATION NUMBER: PCT/JP98/00837
: PRIOR FILING DATE: 1998-02-27
: PRIOR APPLICATION NUMBER: JAPAN 09-62290
: PRIOR FILING DATE: 1997-02-27
: PRIOR APPLICATION NUMBER: JAPAN 10-62217
: PRIOR FILING DATE: 1998-02-26
: NUMBER OF SEQ ID NOS: 26
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 14
: LENGTH: 200
: TYPE: PRT
: ORGANISM: Mus musculus
US-10-107-907-14

```

```

Query Match          66.8%  Score 722.5; DB 12; Length 200;
Best Local Similarity 68.3%  Pred. No. 36-65;
Matches 136; Conservative 20; Mismatches 42; Indels 1; Gaps 1;

```

```

1 MKSGMYFFFLCRLIKVLTCGINSANYEMFIFHNGVOILCKYPIVQOFKMLKGGQ 60
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 1 MKPYCHVEVFCFLIRLTGELNSADHRMFSEHNGVQISCKYETVQOLKMLFHERE 60
Db
61 ILCDLTKTKSGNTVSIKSLKFSHLSOLSNNSVSFFLYNLDHSHANYFCNLTDFDPPPK 120
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 61 VLCELTGKSGNNAVSIKPNPLCLYHLSNNSVSFFLNPDSSQSYIFCSLTIDPPPO 120
Db
121 V-TLGGYLAHYESQLCCQKFWLPICGAFVYVCIIGCIIICWLTKRKYSSVHDNGE 179
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 121 ERNLGCVLAHYESQLCCQKLMPLVGLPAFVYVLCILIFWFSKKYSSVHDNSE 180
Db
180 YMFRAVNTAKKSRLTDVT 198
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 181 YMFMAVNTNKKSRLAGVT 199
Db

```

```

RESULT 12
US-10-107-868-13
: Sequence 13, Application US/10107868
: Patent No. US20020156242A1
: GENERAL INFORMATION:
: APPLICANT: Tezuka, Katsunari
: TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
: FILE REFERENCE: 06501-039002
: CURRENT APPLICATION NUMBER: US/10/107,868
: CURRENT FILING DATE: 2002-03-26
: PRIOR APPLICATION NUMBER: 09/561,308
: PRIOR FILING DATE: 2000-04-28
: PRIOR APPLICATION NUMBER: US 09/383,551
: PRIOR FILING DATE: 1999-08-26
: PRIOR APPLICATION NUMBER: PCT/JP98/00837
: PRIOR FILING DATE: 1998-02-27
: PRIOR APPLICATION NUMBER: JAPAN 09-62290
: PRIOR FILING DATE: 1997-02-27
: PRIOR APPLICATION NUMBER: JAPAN 10-62217
: PRIOR FILING DATE: 1998-02-26
: NUMBER OF SEQ ID NOS: 26
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 13
: LENGTH: 200
: TYPE: PRT
: ORGANISM: Rattus norvegicus
US-10-107-868-13

```

```

Query Match          64.8%  Score 701; DB 9; Length 200;
Best Local Similarity 67.9%  Pred. No. 4,36-63;
Matches 133; Conservative 17; Mismatches 42; Indels 4; Gaps 2;
YF---FLFCLRIKVLTCGINSANYEMFIFHNGVOILCKYPIVQOFKMLKGGQILC 63

```

```

: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 4 YFSCVVEVFCFLIRLTGELNDLANHRMFSEHNGVQISCKYETVQOLKMLFDRBVL 63
Db
64 DLTKTGSGNTVSIKSLKFSHLSOLSNNSVSFFLYNLDHSHANYFCNLTDFDPPPK-KYT 122
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 64 DLTKTGSGNTVSIKPNMSCPYQLSNNSVSFFLNPDSSQSYIFCSLTIDPPPOEKN 123
Db
123 LTGGYLAHYESQLCCQKFWLPICGAFVYVCIIGCIIICWLTKRKYSSVHDNGEYMF 182
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 124 LSGGYLLIYESQLCCQKLMPLVGCFAFVALLFCIFVWPAKKRYSSVHDNSEYMF 183
Db
183 MRAVNTAKKSRLTDVT 198
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 184 MAAVNTNKKSRLAGMT 199
Db

```

```

RESULT 13
US-10-107-828-13
: Sequence 13, Application US/10107828
: Patent No. US20020115831A1
: GENERAL INFORMATION:
: APPLICANT: Tezuka, Katsunari
: TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
: FILE REFERENCE: 06501-039002
: CURRENT APPLICATION NUMBER: US/10/107,828
: CURRENT FILING DATE: 2002-03-26
: PRIOR APPLICATION NUMBER: US/09/561,308B
: PRIOR FILING DATE: 2000-04-28
: PRIOR APPLICATION NUMBER: PCT/JP98/00837
: PRIOR FILING DATE: 1998-02-27
: PRIOR APPLICATION NUMBER: JAPAN 09-62290
: PRIOR FILING DATE: 1997-02-27
: PRIOR APPLICATION NUMBER: JAPAN 10-62217
: PRIOR FILING DATE: 1998-02-26
: NUMBER OF SEQ ID NOS: 26
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 13
: LENGTH: 200
: TYPE: PRT
: ORGANISM: Rattus norvegicus
US-10-107-828-13

```

```

Query Match          64.8%  Score 701; DB 12; Length 200;
Best Local Similarity 67.9%  Pred. No. 4,36-63;
Matches 133; Conservative 17; Mismatches 42; Indels 4; Gaps 2;

```

```

7 YF---FLFCLRIKVLTCGINSANYEMFIFHNGVOILCKYPIVQOFKMLKGGQILC 63
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: 4 YFSCVVEVFCFLIRLTGELNDLANHRMFSEHNGVQISCKYETVQOLKMLFDRBVL 63
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64 DLTKTGSGNTVSIKSLKFSHLSOLSNNSVSFFLYNLDHSHANYFCNLTDFDPPPK-KYT 122
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: 184 MAAVNTNKKSRLAGMT 199
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RESULT 14
US-10-107-907-13
: Sequence 13, Application US/10107907
: Patent No. US20020151685A1
: GENERAL INFORMATION:
: APPLICANT: Tezuka, Katsunari
: TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL

```

Wed Jan 15 17:17:46 2003

us-09-509-283b-2.rapb

Page 6

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1 TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
2
3 FILE REFERENCE: 06501-039002
4
5 CURRENT APPLICATION NUMBER: US/10/107,907
6
7 PRIOR FILING DATE: 2002-03-26
8
9 PRIOR APPLICATION NUMBER: 09/561,308
10
11 PRIOR FILING DATE: 2000-04-28
12
13 PRIOR APPLICATION NUMBER: PCT/J998/00837
14
15 PRIOR FILING DATE: 1998-02-27
16
17 PRIOR APPLICATION NUMBER: JAPAN 09-62290
18
19 PRIOR FILING DATE: 1997-02-27
20
21 PRIOR APPLICATION NUMBER: JAPAN 10-62217
22
23 PRIOR FILING DATE: 1998-02-26
24
25 NUMBER OF SEQ ID NOS: 26
26
27 SOFTWARE: FASTSEQ for Windows Version 4.0
28
29 SEQ ID NO 13
30
31 LENGTH: 200
32
33 TYPE: PART
34
35 ORGANISM: Rattus norvegicus
36
37 US-10-107-907-13

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Db	184	MAAVTNKRSRLAGMT 199	

RESULT 15
US-10-107-868-15
; Sequence 15, Application US/10107868
; Patent NO. US20020156242A1
; Inventor: JAMES W. HARRIS

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? APPLICANT: Yamakani, Takuya
? APPLICANT: Tezuka, Katsunari
? TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL-CELL
? TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
? FILE REFERENCE: 06501-039002
? CURRENT APPLICATION NUMBER: US/10/107,868
? CURRENT FILING DATE: 2002-03-26
? PRIOR APPLICATION NUMBER: 09/551,308
? PRIOR FILING DATE: 2000-04-28
? PRIOR APPLICATION NUMBER: US 09/383,551
? PRIOR FILING DATE: 1999-08-26
? PRIOR APPLICATION NUMBER: PCT/JP98/00837
? PRIOR FILING DATE: 1998-02-27
? PRIOR APPLICATION NUMBER: JAPAN 09-62290
? PRIOR FILING DATE: 1997-02-27
? PRIOR APPLICATION NUMBER: JAPAN 10-62217
? PRIOR FILING DATE: 1998-02-26
? NUMBER OF SEQ ID NOS: 26
? SOFTWARE: Fastseq for Windows Version 4.0
? SEQ ID NO. 15
? LENGTH: 216
? TYPE: prt
? ORGANISM: Rattus norvegicus
? OS-10-107-868-15

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